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POR RAILROADS, CANALS, STEAMBOATS, MACHINERY

to estar out buy or signal AND MINES. see the road. This we are fully considered in the true police



ESTABLISHED 1831.



PUBLISHED WEEKLY, AT No. 105 CHESTNUT STREET, PHILADELPHIA, AT FIVE DOLLARS PER ANNUM.

SECOND QUARTO SERIES, VOL. III., No. 471 SATURDAY, NOVEMBER 20, 1847.

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[WhoLE No. 596 Vot. XX.

Correspondents will oblive us by sending in their ommunications by Tuesday morning at latest,

PRINCIPAL CONTENTS.

Mount Savage Iron Works
Central Michigan Railroad
Northern, N. H., Railroad.
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Railroad Fares-Comparative rates in the U.S. 738
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AMERICAN RAILROAD JOURNAL.

PUBLISHED AT 105 CHESTNUT ST. PHILADELPHIA

Saturday, November 20, 1847.

To Contractors -- Pennsylvania Central Railroad

It will be seen, on referring to the advertisement of this company, that the amount of work to be let has been increased by several miles since the notice was first given-and that the day of letting has been changed from Thursday the 25th, to Friday the 26th of November. We would, therefore, ask the atten-tion of our readers engaged in that line, to the notice of the company, which we bring forward in this number for their convenience.

DENNSYLVANIA RAILROAD COMPANY road, extending west from section 20 to near Lewis-

Schnylkill Cont Trade

SCHUYLKILL NAVIGATION .- Week ending Novem

Pottsville and Port Carbon	Tons. 6.299	cwt.
Schuylkill Haven	2,312	00
Previously	8,619	06

Mount Savage Iron Works.

These extensive iron works were sold, we perceive at the time appointed, last week, to Messrs, Corning & Winslow of Albany, and Mr. J. M. Forbes of Boston, for \$215,000, upon the judgments of the English bond holders. This establishment, like many other pioneers in this country, commenced opera tions upon too large a scale at first, requiring an immense outlay of capital to be a long time out of use before returns could be realized, and probably mainly upon a borrowed, instead of a subscribed and paid-up capital.

We are not informed as to the extent of the works at this time, but understand that they have been much enlarged since our visit to them in 1843, the year they commenced making railroad iron. The outlay of capital has been more than luice, and prohably three times as much as the amount of this sale which ought to be, and will be under the manage ment of the present proprietors—who are practical business men-an excellent investment,

We understand that operations will be re-com menced at an early day; and we hope to hear that our anticipations of this establishment are yet to be cilities to the Vermont state line. fully realized.

- Control Michigan Hallroad. aleb et

Receipts for October.

The Central railroad company, says the Detroit Free Press, are doing a large business on the road. Notice to Contractors.—Proposals will be receipts for the month of October were \$60,300 ceived until FRIDAY, the 26th day of Novem-96. Considering the running expenses, length of ber, at 10 o'clock A. M., at the Town-Hall, in the road, etc., we venture to say there is not in the Borough of Lewistown, for the grading and mason-United States, a road which pays as well to the road, extending west from section 20 to near Lewis stockholders.

road, extending west from section 20 to hear Lewistown.

Plans and specifications of the work can be seen
at the above named place for five days previous to
the time appointed for receiving bids.

Any further information can be had upon application to W.M. B. FOSTER, Jr., Esq., Associate
Engineer at Harrisburg.

S. V. MERRICK,

President.

"When this road is finished through to the lake,
it will do a business that will astonish our eastern
neighbors, who have until recently imagined this
road an unprofitable investment. In the spring of
1846; we were in New York city, and beard an intelligent gentleman express surprise that capitalists
could be found willing to invest money in a railroad "When this road is finished through to the lake, road an unprofitable investment. In the spring of could be found willing to invest money in a railroad away out west,' and assert that the country could not give support enough to the road to pay interest on the investment. We were appealed to, to know how much the daily or monthly receipts were, and namely, from Concord to Grafion, since Se remarked that the road had done a business of \$30, and the receipts upon it have been large. The

is running opposition to the road. 'This is a grea country,' and is constantly growing."

Northern N. H. Railroad

"We understand," says the Boston Atlas of the 13th, "that this railroad will be opened entirely (with the exception of a short piece from Lebanon village to the Connecticut river, which it is unpocessary to run, until the roads in Vermont are our plete) to the public, on Wednesday, the 17th instant. On that day, the stockholders, with invited gue will pass over the road, leaving Boston in a spe train at 71, A. M., and returning the next day-dining together, by invitation of the citizens of Le banon and vicinity, on the 17th. Among the invited guests who have consented to be present, we learn, are the Hon. DANIEL WEIRITEN, Hon. JOHLAN QUIN-CV, Jr., Hon. CHARLES H. WARREN, Hon. JOSEPH Bell, and numerous others. We understand a grand gathering is anticipated at Lebanon, to celebrate the completion of this enterprise, connecting by railroad the valleys of the Connecticut and Merrimac-and, for the first time, opening railroad fa-

This line of road now extends from Boston to Lowell, thence up the manufacturing valley of the Merrimac, through Manchester, Nashua, Concord and Franklin, where it leaves the valley, and cros over the intervening heights, at a moderate gr to the valleys of the Blackwater and Smith's riv and thence follows the Mascoma river down to the Connecticut, where intersecting roads connect with it, and extend in one direction up the valley of the Connecticut and Passumpsic rivers, to Stanstead and Montreal; and, in the other, through Central Vermont, to Burlington, St. John's and Montreal, and to Pittsburg and the Saint Lawrence, at Ordens

The distance from Boston to Connecticut river, by this line, is 143 miles, which is now to be opened to the public. Of this, the Northern road makes about 69; and the Concord, Nashua and Lowell, and Boston and Lowell, 73 miles.

Forty-four miles of this road have been run.

e facts seem fully to justify the standing the d in our its stock

those who have invested their capital in it will be sure to derive ample returns, as it will unquestionably prove one of the most profitable roads in New England.-[En. R. R. J.]

delphia, November 6th 1817.
Auburn and Rochester. \$100. 101103 Boston and Lowell 500. 6034,6084 Boston and Maine 100116.,1164
Boston and Lowell 500 . 6031 . 6081
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will be a Harlem next, and then nt in the construction of this road; and New England roads all range below three cents, except the New Haven, Hartford and Springfield, which And the next lowest, after the New England roads, is the Weldon and Wilmington, fraction less than 21 cents—quite too low for a country to thinly populated—though ch is a fraction less than 21 cents—qui th for many of the more northern lines

From this statement it will be seen that the railroads in the the State of New York, diverging from Railroad and Canal Stocks.

Railroad and Canal Stocks.

See In Boston, New York and PhilaNovember Cit. 1817.

Par al. Off. Asked. Dividend.

This we are fully convinced is the true policy, and we believe it will ultimately prevail.

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Chesspeake and Ohio Canal.

Chesspeake and Ohio Canal.

The Williamsport (Md.) Times of Friday says:—"We learn from reliable sources that the Chesapeake and Ohio canal will be in good navigable order by the latter part of next week, and that by that time a large and active transportation of flour and other produce will be commenced."

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Charles barraines () a colored below to take a self
We should have had few railways in this coun-
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	estern		
Birmingh	am and Brighton	1,000030141801418	3.000

Manchester and Leeds 3,600
Great Western 4,800 In the case of the continental railways, the first three classes of expenses have not been so great. The "law charges," etc., on the Belgian, were £430 a mile; on the Paris and Rouen, £800. The "land and compensation," Paris and Rouen, £2300; Belgian, £2750. In "railway works and stations," Belgian, £10,600 per mile; Paris and Rouen, £17,000. In the "carrying establishments," Belgian, £3450; and Paris and Rouen. £2400 per mile.-The Rail, its Origin and Prospects.

On Saturday, the 23d of October, this company

broke ground, with appropriate ceremony, at Lon-There appears to have been much enthusiasm manifested by the people of that district—and the day was made a day of rejoicing and amusement. The charter for this road was obtained about ten years ago. The government appropriated £300,000 in aid of the work, but from the general depression in the business operations of 1838 and 1839, with other difficulties of a local character, prevented the commencement of the work. It was considered a work of too great importance, however, to remain long neglected, and another effort was made in 1844 and 1845 to get the stock taken in England, which was thought for a time to be entirely successful; but to use the language of the president of the company. Sir Allan McNab, "scarcely was the arrangement effected when the railroad panic broke out in England, and the stockholders were in consequence unable to fulfill their engagements. They had, however, he was happy to say, £350,000 of stock hale in England, by good constituents—men who are able to fulfill their engagements. They had, however, he was happy to say, £350,000 of stock hale in England, by good constituents—men who are able to fulfill their engagements. They had, however, he was happy to say, £350,000 of stock hale in England, by good constituents—men who are able to fulfill their engagements. They had, however, he was happy to say, £350,000 of stock hale in England, by good constituents—men who are able to fulfill their engagements. They had, however, he was happy to say, £350,000 of stock hale in England, by good constituents—men who are able position of the province and the adjoining States, will be contained the best route of communication between the chain of railroad from Boston to Niagata river, and the railroad plant and the difficulties and the delays which have taken place, he said, "in conclusion, he would assure them manifested by the people of that district-and the all the difficulties and the delays which have taken place, he said, "in conclusion, he would assure them that, come what may, it was a positive certainty extent of the business now done on lake Eric.

tation in aying they must support it?

After years of delay and years of effort, and of America of the conpreliminary surveys, the surveys for a defaute location to the confits the r After years of delay and years of effort, and of preliminary surveys, the surveys for a defisite location were commenced early last spring, under the direction of Charles B. Straat, Eac., one of the most persevering and efficient engineers of the United States, aided by several other young men of the profession from the States, and pursued with a vigor—and we think we may say a success, rarely equaled, as they examined and "carefully surveyed nearly fifteen hundred miles" of line—and located definites. It is important towns, and adding much to the value of real of the towns. ly, including the branch to Sermin, 1771 miles, of which 264 miles are straight lines—as may be seen in Mr. Stuart's report, published, with a very valuable map, showing the line and all its important connections, both east and west, as well as in Ganada, in the Journal of September 18th, or No. 38.—
Since the surveys were completed, one hundred and ninety-two miles, extending from Nizgara river to witch now, for the want of cheap and rapid Hamilton, thence to London and thence to Port Sar-him. He drew their attention to the events nia on the St. Clair river, have been put under contract; considerably, as we understand, within the es timate of the engineer; and now we perceive that the work has been formally commenced, and under auspices, we trust, which will ensure its rapid construction, as we are quite sure that it will prove to Canadian farmers on an equal frotting with the fa

> In the course of the proceedings, Gen. S. Tiffany, Esq., chairman of the directors, addressed the meeting, explanatory of the great and peculiar advantages of this road, not only as a local work, but as the great and direct connecting link between the roads of Michigan, Indiana and Illinois to the Mississippi and Ohio rivers, and those of New York and New England. The remarks of Mr. Tiffany are so appropriate that we give the following extracts from them, as published in the Toronto Globe of 27th October, and refer our readers to the map accompan panying Mr. Stuart's report in No. 38 of the Journal, from which they will better understand the subject, and appreciate the importance of this line,

> Mr. Tiffany said "he was called on to speak of the tendency which the Great Western road would have in promoting friendly relations between this province and the United States, and he believed there was no one present who did not feel the vast importance to both countries, to cultivate and maintain mutual good will. Through the means of the countries,"

past year when, through the want of such a line of road wheat and flour wan lucked up for a long time at a great loss to the owners, and that at the press moment wheat brought is, 3d, per bushel more Buffalo than at Hamilton. The construction of t Great Western will correct this evil, and place mers of western New York. These were strong motives why every man should, according to his ability, aid in building the road, but whatever the public may do in this respect, they might rely on the directors doing their duty, and he expressed his perfect confidence that the road would soon be completed. He then said that the directors had never regarded this road solely as a western measure, but that they had, as long ago as 1838, in their published report, recommended the extension of it to Montreal and Charles and State of the published report, recommended the extension of it to Montreal that they had, as long ago as 1838, in their published report, recommended the extension of it to Montreal and Quebec, and from thence to Halafax and St. Andrews He regretted that government had not seen fit to take up this whole great project, and construct it at the public cost, with the view of promoting the prosperity of the country, and apply its suiting the profits hereafter to the support of the general expenses of the government, and thus relieve the people from taxation, or in the construction of other lines to intersect the main trunk.

"He expressed his belief founded on analogy, that the Great Western would pay dividends of 15 per cept, the first year after its completion, and that the line from Hamilton to Quebec would pay 5 per cent. In furtherance of this plan, the directors had procured a line from Hamilton to Montreal, to be chartered the session before last.

procured a line from Hamilton to Montreal, to be chartered the session before last.

"In England and the United States the people had felt the want of a general system of railroads.

"Their roads had been constructed without such a plan by piece meal, and to meet mere local wants.

"In this country we had, as yet, no railroads; if we except that between Laprairie and St. John's.—For more than 17 years they have been constructing to a great extent in other countries, while we have looked on at a distance; but we have the advantage of the experience of those to guide us, and if we will be but taught by such experience, we may in the end have no reason to regret the delay of making railroads here. We can hardly expect that private capital and enterprize can be found, sufficient to carry out so large a system for many years, and therefore he hoped that while there was yettime, government would, with an enlightened and bold policy, take the matter up.

matter up.

"He concluded by expressing his gratified surprize at the immense, and highly respectable assemblinge of the people on that occasion, and could not but regard it as a hopeful indication of the awakened and deep interest the people feel in the construction of the road."

Charles B. Stuart, Esq., chief engineer of the company, was then introduced to the andience, and he proceeded to give a brief sketch of the progress.

He then alluded to the astonishing growth and he proceeded to give a brief sketch of the progr of the work, and the favorable adaptation arry to country for the construction of a railroad. that the road would be built, and that, too, with very "Viewing the road, therefore, as so necessary to country for the construction of a railroad. He little delay. No government could stand which the people of the United States, he thought it would dwelt at some length, likewise, on "the great advanalemen most gratefully for the bonor you have done or 4 feet 9 in. The roads in New Jerser, Ohio and lieve engineers, general

this line would be to Canada, and sho erthinty of a large portion of the passenger and the transport trade of the great western territo-being diversed, through it. Mr. Stuart wound up by an energetic appeal to the people of Canada to put their shoulders manfully to the wheel, and the work will soon be carried through."

A public dinner was given by the ellizena of Lonlun, at the Western Hotel, at which about 120 gentlemen were sented, After toasting her most graci ous Majesty-Prince Albert and the royal familyand the Governor General of Canada, which were of course drank with all the honors and many cheers

"the president then rose and said in this great amprovement which they sought to effect in Capada, everal enterprizing Americans were associated; many of the stockholders and some of the guests of the evening were natives of the Unfied States; the proposed railroad, it was expected, would be largely supported by our neighbors; the commercial affinity of Canada and the States was every day becoming closer-and he thought all present would feel on such an occasion, it was a proper compliment to their friends from the other side, to do honor to their chief magistrate, He gave the President of the United States. The toast was drank with all the

as if at home, and why should it not be so? They closely together, to band them together by bands of ithe likes to lead at its head, and the other principal ir in? The people of the United States were de-lines in the kingdom. try more so than the Empire State of New York.— be 5 feet, 5 feet 6 inches, 6 feet, or seven feet—the An American in Canada could hardly realize, now, width of the "Great Western"—we do not presume that the countries were separated—but when the to decide; but that it would have been much better iron bridge spans the mighty Ningara, and we sweep in the end, if a wider gauge had been at first adoptine crowds over your railroad, we will forget that we ed, we think there cannot be a doubt. It has howare foreigners. And when Canadians shall visit ever been, by many able men, deemed doubtful our aide of the lines we shall hold out to them the whether true policy, now, after so many roads have right hand of fellowship—and nowhere will they're been built, and so large an expenditure has been ceive a heart'er welcome than in the Empire State, made, dietates a change of gauge. There are cir-I thank you, Mr. President and gentlemen, concend-cumstances, we are quite satisfied, where a different ed Mr. Stuart, for the toast you have received so gauge may be adopted by a company; and perhaps curdially, and believe me that, when you come to there is no line where it can be, with more proprieour side of the lines, we will give as hearty cheers ty adopted than from Pottland to Montreal, for the (loud cheers.)"

There were many good things said and songs sung, but nothing perhaps occurred which excited more amusement than the following short reply of the venerable Col. Talbor, when his health was

The chairman said-after a warm eulogy upon the character of that gentleman—that, " in Colonel Talbot's presence he would refrain from anying more, and he knew that eulogy was not required to call forth a hearty response to the health of the Hon. Thomas Tulbol.

Thomas Tulbot.

"Loud and long continued cheering greeted this uset, and Mr. Coote Stanley sang, in good style—
The Fine Old English Gentleman."

" Col. Talbot then rose and said, I thank you gen-

er hoped to behold in this settlement—it is an event ever to be forgotten. I believe I am the oldest inhabitant. I slept on this spot 55 years ago, when my best friend was a porcupine. We were often racessively hungry in those days, but we all used to leclare that we never were so hungry as the night we ate the porcupine. (Cheers and laughter.) What a change has occurred since then! Now I see different beings around me-no porcupine-no bristles but in their place a company of half-civilized genlemen. (Laughter and cheers.) I wish you gentlemen, all prosperity, and when I am laid under the and, may you go on progressing under the blessing of God (cheers,)"has sail

To a complimentary toast to the engineers, Mr. Stuart acknowledged his obligations to Mr. Spalding and his other assistants, to which Mr. Spaulding briefly replied, and gave- 'The Ladies,' which was enthusiastically received; and the party immediateiv afterwards broke up.

The demonstration from first to last, went off admirably; and we trust it is a happy presage of the success awaiting the enterprized most and show od

Gauge, or Width of Track, for Railrouds. There has been much written and said upon the width of track for milronds. The early views of yet, unfortunately, the width of track cannot be as the first from road was built. And were they not on the result in England, more especially, since the conthat very occasion to unite the two countries more test between the Great Western, with Mr. Brunel-

airons of cultivating an enduring social friendship Of the superiority of a track wider than 4 feet 84 with the people of Canada and no part of the count inches, we have not a doubt; but whether it should for your Queen as you have give for our President, reason that it passes through a country, and opens a communication, where the freight to be transported is likely to be of a bulky character; and also beof country laying east and northward of it; and be-cause it will be as easy for all roads constructed be-yond it, which may be in any way connected with it,

whole to our readers as we may find room for it.

will be seen that we now have a variety of gauges a change of the base of the subject. Liberary though principally of a feet of in:

Mississippi, Mr. Morton says, are 4 feet 10 inches. The roads in South Carolina, Georgia and Florida, are 5 feet. The Louisiana roads are 5 feet 6 inches. While the New York and Erie road alone in this country is 6 feet. It is not therefore breaking a rule to deviate from what is, by many supposed to be, a unilorm custom, and under the circumstances, where it cannot throw serious obstructions in the way of business, nor interfere with roads now in use, we are quite content with the decision of those interested in the Portland and Montreal road, and commend the arguments of Mr. Morton to the attention of the readers of the Journal, and the profession generally.

Report on the Gauge for the St. Lawrence & Atlantic Railroad By A C. Morton, Esq., Chief Engineer

Engineer Department, Montreal, September 20th, 1847.

Hon. A. N. Monin, President
St. Lawrence and Atlantic Railroad Co:

Sin: The Act to amend the Act incorporating the St. Lawrence and Atlantic railroad company, passed at the late session of the provincial parliament, 10th and 11th Victoria,

Cap. 65. provides, 'That the gauge upon which the said rail "Mr. Stuart replied. He said be had almost forengineers, and others, in relation to the width of
gotten that he was a native of the United States.—
track for railroads, were probably no nearer correct
in the said railway, shall be four feet eight
and one-half inches, unless, within six calenhad been treated like one at home, and he had felt
relation to the weight of rail and weight of engine; council, determine upon any different gauge, were all living for the same purpose—all were striverally varied as the weight of engine, or rail, and and that, upon communication to the said ing for the same end. It was the pride of the United therefore it is that a deviation from the ordinary rule, company of any order in council, establishing States to follow the example of old England (cheers) or practice of a country, or particular section of any different gauge, the gauge so established Where did they first learn the art of making raft country, usually causes a warm contest between the shall be the one used in the said road as if roads I we were indebted to England for it—there advocates of the different gauges. Such has been the same had been established in and by this act.

The charter of your road contemplates a connection at the boundary line with another road belonging to an American corporation, the two forming a perfect line to the Atlantic

It therefore became necessary in the early stage of these reads that the subject of the wo corporations.

After a careful consideration of the quesion by a convention of directors from each corporation, articles of agreement were en-tered into relative to the general plan of construction, etc., dated April 17th, 1846, in which among other things it is provided (article 5th) a that the gauge shall be that of 5 leet 6 inches in the clear between the rails."

As this gauge differs from that embraced in the recent act of parliament, it is proper that I should state the reasons which influenced me in recommending its adoption for your road.

The question of the best gauge for rail-ways has, within a few years, been much discussed, and it is a subject upon which much difference of opinion prevails. The agitation of this question did not, however, take place so adopt its gauge as any other.

Such appears to have been the opinion of the endifference of opinion prevails. The agitation of this question did not, however, take place length in the shape of a report, to the directors of the St. Lawrence and Atlantic, or the Canada portion ed, involving a vast expenditure of money; of the road, which we propose to give in part or in whole to our readers, as we may find room for it. From this report, as well as from other sources, it opinion as to the propriety and expediency of

flemen most gratefully for the honor you have done or 4 feet 9 in. The roads in New Jersey, Ohio and lieve engineers generally consider that a

accident, it having been in use at a very early date on tram roads, upon which the ordinary wagons of the country ran.

From these it was copied by several coal roads, and afterwards for the Stockton and Darlington, and Liverpool and Manchester railways, which were the first constructed for

The Great Western road in England was,

York have a gauge of four feet nine inches

Those of New Jersey, Ohio and Mississippi are four feet ten inches. The New Or-leans and Nashville road, Louisiana, is five feet six inches, and all the roads of South

the wide gauge in tanoint be sale not expensions.

wider gauge than the prevailing one is desiruble, to meet the requirements of the present
advanced state of railway improvement.

With our present knowledge of railways,
were a new system to be commenced free
from interest and the prejudices of engineers,
committed to a particular width, there can be
little doubt but that a different gauge from
that of four feet eight and a half inches would
he adonted.

In considering the question of gauge for
your road, it is important not only to take in
to view the comparative merits of various
widths of track, but the ultimate design of the
road, the nature of the country through which
it masses, and its connection with other lines

With a view to the better accommodation
of passengers, many railway companies in road, the nature of the country through which it passes, and its connection with other lines of passengers, many railway companies in —also the state of railway improvements in the United States have ordered cars of inthe provinces, the probable effect their concreased dimensions, some of which are 94 struction will have on the business of the calect wide, yet this increase is strongly opposinals, and finally, the position of Canada, ed by car builders and is well known to opecommercially, and the benefits that will flow rate unfavorably from the too great overfrom the adoption of a judicious and well ma- hanging weight. tured system of railways.

it was doubtless considered advisable, both connecting on the one hand with a long line Your road will furnish a cheap and expense regards economy and convenience, that of inland navigation including a vast and ditious conveyance for emigrants, by which

These are the features in your road which val in the country.

track of six feet for its road, which extends from New York to lake Erie, a distance of 450 miles.*

There are 63 miles of this road in operation, and the construction of a large portion of the remaining distance is rapidly progressing.

The maining distance is rapidly progressing.

The maining distance is rapidly progressing.

The maining distance is rapidly progressing trade, to compete success fully with rival lines, whose object is to diverge trade from the St. Lawrence valley, and the public works of Canada, seemed sufficient reasons for giving to your road an enlarged capacity.

This however with your gauge remains a matter of choice; for you may have the same weight of ear with the interior accommodation.

The maining roads in New York to lake Erie, a distance of the revenue of the road, for the road, the weight of car per passenger should be slightly increased.

This however with your gauge remains a matter of choice; for you may have the same weight of ear with the interior accommodation.

tremely difficult to keep railways in a proper state of adjustment, and various expedients have been resorted to with a view more effec-tually to guard against the effects of frust.

On long lines it is desirable to have large This gauge having been adopted for the first inportant road in England, was copied or extended by branches or other lines with out any investigation of its merits till several hundred miles were built.

In the United States the same gauge was usually adopted, and not without very good reason, for it was supposed that the experience already obtained in England, from having first introduced railways generally on this gauge, was sufficient evidence of its possessing all the requisite advantages.

As the first locomotive engines used in the The primary object of your road is to open and well ventilated cars which will permit the shortest and most direct communication each passenger to have a separate seat with

they should conform to those already in use fertile territory, and terminating on the other they will be enabled to reach their place of in that country, and this may have been a at one of the best harbors on the Atlantic destination at the most favorable period for strong reason for adhering to the same gauge.

The Great Western road in England was, I believe, the first constructed on what is now termed the broad gauge, although an increase ed width of track had previously been proposed in the United States, and in a few instances adopted.

The South Carolina toad, which is 136 miles in length, and was completed in 1833, has a gauge of five feet.

The propriety of an increased width of track was laid before two or three railroad companies, in the State of New York in 1834 and 1836, one of which adopted a width of track of six feet for its road, which extends from New York to lake Erie, a distance of fully with rival lines, whose object is to divert even though the second commanding position, and indicate the great indicate the great doubtedly constitute an important branch of business, and for the second class cars the doubtedly constitute an important branch of business, and for the second class cars the doubtedly constitute an important branch of business, and for the second class cars the doubtedly constitute an important branch of business, and for the second class cars the additional width allowed by a wider gauge, will permit an increase in the number of seats and a most advantageous arrangement for a larger number of passengers in a given number of cars. The weight of car per passenger cars it is preferable to give superior accommodations, which increases the number of passengers and the revenue of the road, fully with rival lines, whose object is to divert even though the weight of car per passenger.

accommodation.

This is not a question whether the company shall construct narrow and inconvenient tually to guard against the effects of frest.

Efforts to overcome this difficulty, have to a limited extent been successful, but it is only but it is a question in which the public are limited extent been successful, but it is only by constant attention and great cost that railible treatment in the propriety of an increased width of track, and subsequently in able reports to the New York and Erie, and the New York and Albany railroad companies, advocating the wide gauge.

It is question in which the public are care because they may cost or weigh less, but it is a question in which the public are districted and have a right to claim the best ways are retained in that state of repair required by a proper regard to safety and economodations which the gauge will permit the surface of the rails from frost or other causes, communicates to the cars an irregular rocking motion which adds to the resistance interests of the company to offer every in-

On the Great Western railway in Engine which has a gauge of 7 feet, the weight of car per passenger carried, is no greater than the average of the London and Birmingham, Grand Junction, Dover and Brighton, South Western and Midland company, but affords

On the New York and Eric railway, in the State of New York, which has a gauge of 6 feet, the weight of car per passenger carried is 85 pounds less than on the narrow gauge roads there, and affords equal room

for each passenger.

The nature of the business to be done on your railroad, will undoubtedly nearly resemble that of roads in the northern part of the United States; and it is supposed that 1st class passenger and merchandize cars of a similar character to those in use there, will be found more appropriate for your road than cars of any other description. In reference to freight cars, it is believed that the wider gauge of 5½ feet will be found to afford superior advantage to those of the narrow track.

A greater width of car may be adopted which is better calculated for carrying all hinds of freight: much of which will be

The articles which would be transported to better advantage on large cars, are various kinds of light machinery, furniture, charcoal, hay, cattle, horses, calves, hogs, sheep, cotton.

hope, wool, etc. To me not some your or such it will doubtless often be necessary to limit the load below the tonnage which should be carried by each car, for want of space, and in such case a loss of power is susstained; in such case a loss of power is susstained;—
for the number of cars in the train will be increased and their weight will compose a
larger part of the gross load. With larger
c are a less length of train would be required
for the same tonnage, thereby lessening the
resistance to be overcome from side winds,
which increases with the length of the trains.
The resistance of a train in passing curved
portions of a road, is also considerably lessened by diminishing its length.
Increased width of cars gives greater ad-

forceased width of cars gives greater advantage in hauling a given load under the same circumstances; for it is well known that the power is applied more advantageously to short trains than to long ones, and by diminishing the number of cars the weight of useful tomage carried is greater in proportion to the gross foud.

Freight cars need not necessarily be any heavier on your gauge then they are now on most narrow gauge roads; but if we avail ourselves of the greater capacity, which the 5-12 teet track ullows, the weight of car per ton of freight which may be carried, will be

less than on the narrow gauge.

With a gauge of 4 lest 8 1.2 inches, it is found difficult to arrange the working parts of an engine, and to give the requisite dimensions to the fire box and boiler, without

raising too much the centre of gravity.

Nearly all the engine builders in the United States, with whom I have consulted, ad the track.

ducement which will secure the patronage of mit that they labor under great difficulty for the public.

On the Great Western railway in England
5 to 5 1-2 feet will allow them sufficient which has a gauge of 7 feet, the weight of space to overcome all these difficulties.

space to overcome all these difficulties.

It is awing to this inconvenience in arranging the parts and in making the repairs, that many builders have adopted outside cylinders for some of their engines.

These it is generally admitted are objectionable on many accounts, and are likely soon to get out of use, particularly for engines designed for high speed.

They are more usually adopted for freight engines, on account of the less speed they are required to run, but for these they are nearly abandoned by the principal builders of the eastern States.

of the eastern States.

It is however often the case that in order to make up for lost time, freight engines are to make up for lost time, freight engines are necessarily run with great velocity, in which case all the objections to outside cylinders operate with full force. With this arrangement of the cylinders, the power is applied alternately to each side of the engine, which causes it to sway from side to side, and produces that galloping and oscillatory motion, so injurious to the machine and the road, and so productive of accidents. It is well known that by the application of the power nearer the centre of the machine, and the more favorable position of the working parts with inside cylinders, the above difficulties are avoided.

The greater space afforded by a 5 1 2 feet gauge permits the most favorable disposition of these parts, and al! the benefits resulting

from their central position are fully realized.

Another reason assigned for the adoption of ontede cylinders, was the frequent break-ing of crank axles; but it is only necessary to manufacture these with proper care and proportion, to insure exemption from the diffi-culty. This has already been done and they are now deemed by many builders, as safe as the straight axlegate modely to translate out

comes important to lessen if practicable their

evil effects upon the machinery and the road.

By increasing the width of track, the motion of the engine is easier and more steady, its various parts working more freely and with ess dauger of injury from sudden changes It is desirable to have as large driving wheels as practicable without raising too much the centre of gravity of the engine. By enlarging the driving wheels, the same speed may be maintained with less velocity of the piston and less friction; and as most of the weight is on these wheels, their increased size lessens the shock which the engine receives.

the shock which the engine receives.

Large wheels permit a more efficient and economical application of the steam, lessen the wear and tear of the working parts, and with an increased base give greater steadiness and security. Both the lateral and vertical movements of the engine being easier, its action on the road will be less injurious, and there will be less danger of its leaving the cottof the erection of the erection of the residences for the additional number of work-

The more important advantages, however

The more important advantages, however, resulting to the engine from a wider track, is the enlarged size of the boiler and fire box which this increased space allows.

As the power of the engine depends upon the extent of evaporating surface, all improvements which have reference to an increase of power have been directed to an enlargement.

of these parts.

The space, however on the narrow gauge being limited, the only means left to increase the heating surface is to lengthen the boiler and fire box. But there is a strong objection to the increased length of boiler on account of the loss of power required in creating suf-ficient draft through their long tubes.

One of the earliest of Mr. Stephenson's locomo motive engines is now employed conveying coals, on the Darlington Railway, at a less cost per ton than any other railway in England.

Comparative Cost of Engines and Caramada.

in the Shope of the Company or by

This is an important operation for railway comcanies to decide. It is a question upon which there is a diversity of opinion. In England we believe that the companies have generally purchased them from the manufacturers so have they mainly in this country, though many companies have, at different times, attempted to construct their own machinery, and some continue to do it in whole, and others in part; while others again have abandoned the manufacture, and only do their own repairs.

The Great Western company, it appears from the following article, are preparing, on a large scale,

to make their own machinery.

They go very far beyond us, in England, in the size of some of their driving wheels. Six feet, we believe, is as far as any of our manufacturers have gone, while eight feet are not uncommon on some

of the English roads, its a young board off bourses.
The London Morning Herald says: lo dishin bo It is stated by the locomotive superintendent of the Great Western line, Mr. Daniel he straight axle, and mobile to the found that inequalities and irregularities in the track are inequalities and irregularities in the track are motive and tender of the very best materials motive and tender of the very best materials and workmanship, without stint as to the price of steel and iron, or pay for first rate men, for £400 less than they can be procured from the manufacturer. Four hundred locomotives will, it is stated, be required to work the traffic over the broad-gauge lines in the course of construction. During the last twenty months there have been manufactured at Swindon 24 engines, with tenders, and a considerable number are now in a very forward state of construction! The completion of the works will, we are informed, enable the company to put upon the line annually 60 engines with tenders, and about 250

to be employed there on the completion of the buildings in progress, will, as we are officially informed, amount to about \$220, 000. The station, workshop, men's residences, cricket ground, and the church—a very beautiful structure occupy about 14 acres of land, which have been purchased at £200 per acre, and it is stated that the cost of the additional shops for the present exclusive manufacture of locomotives, tenders, and the whole journey, and the velocity was ver trucks, but which, as we have observed, will high. Yesterday we had an opportunity of herenfter be principally devoted to the repairs of locomotive and truck, stock, as well "Iron Duke," one of the eight-wheeled class as, of course, for the manufacture of the cur, of locomotives, with a train of about the same rent want of locomotive stock, will amount to about £100,000. If the company turn out locomotives, tenders, and trucks, at the estimated capability of the new workshops, viz., 60 locomotives, with their tenders, and 250 trucks, per annum, with the saving contemplated, it is clear that the anticipatory erection of the additional works, will realise to the Great Western people a saving of about 29,000% per annum. This calculation, however, supposes that an outlay of about 25,000% required for the erection of the residences of the additional number of men wanted will return 8 per cent, in the shape of rent. We are, after having inspected the houses already built at Swindon by the company, and being put in possession of a list of the rents charged inclined to doubt whether the return upon the sum will yield more than 4 or $4\frac{1}{4}$ per cent; but as these houses will be required for the additional workpeople that must be employed in repairs, when all the lines in connection with the broadgauge system are open to the public, we can deduct as a loss to the company only the difference between the 4 or 44 per cent and the 8 per cent dividend paid to the proprietors, or the difference between the 4 or 44 per cent, and the rate of interest at which such 25,000%, may have been borrowed by the company "Taking the saving at 25,000% and not at 29,000% per annum, and the unti-cipatory construction of the new works will, by the preliminary devotion of them to the manufacture of locomotive stock and trucks, produce to the company, in the course of four years, the entire cost of such works.

The locomotives that have been built at the Swindon works, and now running on the the Swindon works, and now running on the line, are amongst the best ever manufactured in this country. Not only are they the most powerful in the world, both as respects their capability to deal with heavy loads and attain high velocities, but their manufacture may be said to be almost perfect. We have frequently been over the shops when the men have been at work, and have derived much pleasure from observing the great care with which all of them attended to the duties committed to their charge. the great care with which all of them attended to the duties committed to their charge. The most sedulous attention is paid to their spiritual and moral welfare by a painstaking and excellent clergyman; a well-selected hibrary has been provided for them; a mechanics' institution formed, and a cricket ground are and for their amusement; and the happy opened for their amusement; and the happy consequence is, that a more intelligent, industrious, or well-behaved body of mechanics is

A few weeks since we gave the quantity of coke burnt by the "Great Britain," eight wheeled engine, with a train of 90 tons, tra velling at an average speed of about 37 miles per hour, between Paddington and Swindon, with five stongages. The quantity was a Kingson, Canada, on with five stoppages. The quantity was a high as 51 lb. per miles and the train was very heavy, a strong wind prevailing during the whole journey, and the velocity was ver ascertaining the consumption of coke by the "Iron Duke," one of the eight-wheeled class weight as the one already alluded to, but travelling at an average velocity of only 2 miles per hour, between Paddington an Swindon, with the five stoppages, and bac with 60 tons at apwards of 25 miles per hou with sixteen stoppages, and we found th average consumption of cole over the who journey was under 20 lb. per mile. The "Iron Duke" has an eight feet driving wheel, 18 inch cylinder, and 24 inch stroke With 60 tons up from Swindon yesterday the driver cut off his steam at 9 inches, and kept his time at the stations with perfect ease We believe this consumption of cake, taking the weights of the trains, the stoppages, an the speed into calculation, is as low as upo any line in the kingdom in a bbs of scoop

Buffale and Mississippi Railread.
Continued from page 729.
We give this table of distances because we thin it may be found very useful as a matter of reference

it may be found very useful as a matter of refer	
Tuble of distances-counted from Chic	agi
ling of greater risk of tile, of sincilly in	104
	Mil-
Galena, via Rockford-stage road.	46
Prairie du Chien, via Galena and Mississippi	71.75
	25
river, Peru, on Illinois central railroad, Ill.—stage	21 41
cl. mang, ttavellers, from other, pphore	10
Ottawa, via Joliet, Ill. stage road	1908
Stephenson and Rock Island on the Missis-	30.02
sippi river—stage road	18
	17
Warsaw on Mississippi river, via Peoria	3.91
and tailroad stage read lates of terrest about	124
Springfield, Ill,—stage road,	114
Southport, Wisconsin Territory—stage road	OT
ributento the revenue. Suchild, sixuawiiM	lais
Head of steamboat pavigation on Illinois	
river—canal 100 or	9
river—canal, 100 or	PAR.
measured on Parmer's Man of Jeans	34
St. Louis, on Mississippi river-Illinois river	Cla
and canal	3
Mouth of the Ohio river, (Gairo) on Miss.	0.00
river-Illinois river and canal,	55
New Orleans, on Mississippi river—Illinois	1745
river and canal,	155
Mouth of the Mississippi river-Illinois river	13(0)
and canal,	169
Cairo over the central railroad	42
Mouth of the Wabash river—canal, Ill., Miss.	6
Lafayette, Ind.—same course via Wabash	0
river.	103
Madison, Ind. on Ohio river and and and and	95
Cincinnati, on Portsmouth, on	11
Milwankie, Wisconsin Territory-lake,	120
Portsmouth, on Milwaukie, Wisconsin Territory—lake, Mackinac, Michigan—lake,	33
	W.S
St. Joseph, Mich.—lake,	
New Buffalo, "	24
Michigan city, Ind., (Government survey)	711
lake	235
Detroit via Mackinac-lake	I SE

a.	Middle Island, on lake Erie—lake
v	Sandustry point, d but a water of the carry
	Cleveland Ohio has " 731
	Buffalo
38	Point Maitland, at entrance to Welland
0,	canal lake and service and service 859
18	Kingston, Canada, on lake Ontario-lake
16	Ogdenshurg, N. Y., on river St. Lawrence
g	Ogdenshurg, N. X., on river St. Lawrence— lake, canal and river.
	Montreal, Canada-lake, canal and river 1226
of	Quebec. " " " " 1367
200.3	Gult of St. Lawrence—lake, canal and river, 1490 Detroit—lake and central railroad, 201
ie se	Middle Island, lake Eric-lake and central
-	railroad
時間が	Sandusky Point, Ohio-take and central
	railroad,
d	Duokirk, N. Y. " 489
k	Buffalo, " " 529
in the	Point Maitland, Canada-lake and central
le	Buffalo—railroad route through Canada—
le	lake and central railroad,
e	Buffalo, by land; via Michigan city, Niles,
8	Kalamazoo, central railroad, Detroit, Lon-
	don, Hamilton and Queenston, Canada—
e,	Michigan city, Ind.—Buffalo and Ministpple our
d	railroadde do coceras concentration de corres 4 50
B.,	Laporte, Indiana Buffalo and Mississippi
95	South Bend, Indiana Buffalo and Missis-
d	sippierailroadrivole liet. Lote lute, stood ain 90
0	Elkhart, Indiana-Buffalo and Mississippi
* **	Union Mills, Indiana—Buffalo and Missis-
167	Union Mills, Indiana—Buffalo and Missis- sippi raffroad,
ed	Ohio and Indiana line-Buffalo and Missis-1 18219
10	sippi railroad com ech a perch sessed or 170
ik	Toledo, Ohio—Buffalo and Mississippi rail-
e.	Middle Island, eta Toledo Buffalo and Missel 10
o,	v sissippi railroud and lake,
	Sanduaky Point, Toledo Buffalo and Miscourt
iù.	sissippi railroad and lake
	Mississippi railroad and lake. Dunkirk, N. Y., via Middle Island Buffalo
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1	Buffalo, N. Y., via Middle Island—Buffalo
ST.	and Mississippi railroad and lake
il.	Point Maitland, Canada, Middle Island
54	Buffalo and Mississippi railroad and lake, 452 Kingston, Canada, Middle Island—Buffalo
111	and Miss, railroad, canal, and lake 663
20	and Miss, railroad, canal, and lake 663 Ogdensburg, N. Y., Middle Island—Buff, and
19 59	Wilss. ramouu, canat and lancioss.
33	
97	Quebec, Canada, Middle Island-Buff, and
id	Quebec, Canada, Middle Island—Buff, and Miss, railroad, canal and lake, 961
1	Guit of St. Lawrence, Middle Island. Buff, and Miss, ratifolds, canal and lake, 1087
16	Lower Sandusky, Ohio, via Toledo-Buff,
2	Miss, and Ohio railroad, 267
76	Miss., and Ohio railroad, 267 Cléveland, Ohio, via Toledo—Buff, Miss. and Ohio railroad, 336
56	Ohio and Penn, line, Ohio, vas Toledo -
0.1	Buff, Miss, and Ohio railroad 404
14	Dunkirk, N. Y., Ohio, via Toledo-Buff.
18	Miss., and Onio railroud. 472 Buffalo, N. Y., Ohio, etc. Toledo-Buff,
20	Miss and Ohio ratiroatics in the case of the
94	Albany, N. Y. same course to Buffalo and
75	by Albany and Buff railroad
36	New york city—same course to Albany, and by Hudson river,
51	Roston: Miss. same course to Albany and
51	by railroad, d.COM
13	New York city, via Buff and Miss, railroad,
30	Ohio railroad to Dunkirk, and by New
51 73 90 30 80 62	York and Eric railroad, 940
62	Pierpont on the Hudson—same route, 918 New York city,—Buff. and Miss. railroud,
15	lake Erie, Buff. and Albany railroad and
39	Hudson riveral
31	New York city, Buth and Miss tailroad,

The information collected concerning this division of our investigation, separates, itself into several purts as chilled

Fuer-A distinct portion of the travel sses through Chicago, and is that furnished or attracted by the Buffile and Chicago steambouts, and the Mail-steamboat running between Chicago and St. Joseph, in connec tion with the Central Railroad in Michigan, From the best authority, the number of above boats, during the navigation season, is 500 a day. Calling the season six months, or 180 days, we have for the annual number 90,000 passengers. Allowing that only 54,000 of these would go on the rail-road, at 80 each, the revenue from this source would

Second.—In the table of statistics, (page 40 column 20,) we have given the number of travellers passing through each of the five northern counties of Indiana, destined east and west. As these counties are situated in an east and west direction, it is supposed, the numbers are only different estimates of the same travellers, and do not include those bound in a transverse direction, who would necessarily be intercepted by the road, and would more or less contribute to its support. taking the average of these counties (say 13,000) to be the number of through-passengers, paying at the rate of \$6, we have a farther accession to the revenue of \$76,000.

Third — Considering emigrants as pas-

sengers of the second class, we get from column 19 of the table the average number, any 20,000, who would pay \$4,50 each—yielding to the revenue 90,000. Under this arm we may include the freight which the emigrants would pay for the transportation of their teams, goods, and perhaps much of their live stook; neglecting, however, the live tock, each wagen would weigh, on an ave-rage, 9.30 lbs., the load 1600 lbs., and the horses 1500lbs logether, two tons. The number of wagons (see column 18 of the labe) we will call 5,000, making the total

we should get from this source \$140,000; mines, and manufactures, within its own

Fourth.—The way-travel, which we consider distinct from the second item, depends cise amount of a portion of the freight which upon the density of the population, and in would be offered to the road at certain upon the density of the population, and in some degree on the amount of capital employed in manufacturing purposes, within a limited range of the milroad. It was estimated by the Directors of the New York and Eric railroad, in their second report in 1841, that the population in the countries contiguous to the Eric canal, he brinches, and the railroads and other roads along its line, the nation of the pages 38, 39, 40, 41. contributed to the revenue of those works, at the rate of three dollars per individual. Ap at Chicago in 1844 5 [see p. p. 43 44 45] plying this rule to the population given at the road would probably take of the high page 66, viz. 140,006 souls, we should observe and light articles, an amount, which min for this item, the sum of \$421,818. But would yield a revenue of \$26,000. But if

Firm The above four items are specific. and based on reliable data. To these we propose to add a fifth item, embracing those passengers who would be diverted from other road, by the saving of time, expense, and avoiding of greater risk of life, and injury, in river, canal or lake boats. The railroad, if constructed upon the substantial plan the estimate contemplates; and if a speed of perhaps 40 miles an hour be adopted; would attract many travellers from other parallel lines, and may have in many cases a control Prom eleven counties in Indiana, would have in directing other roads yet to pay be built, towards this main artery between the east and west. Possibly a portion of the Canada travel, to take advantage of the su-perior facilities of the line, might be drawn across or around the head of Lake Erie, and contribute to the revenue. Should a railroad be built from Detroit to Toledo, with a dis-tince no greater than that found by a direct coute measured on Farmer's Map of Michigan : any 53 miles. The distance from Detroit via Toledo to Michigan city, would be the same as from Detroit via Central rail road and St Joseph, thus:

Under the above considerations, and for the immediate contributions of such sources, is added the sum of \$50,000.

BEVENUE PROM-FREIGHT.

Much as has been given in the preceding weight 10,000 tone, which, at \$5 a ton over puges, with a view of satisfying those persons for the part of the who may take an interest in this project, that there would be carried on the road, a large of the mount of the products of the field, forest, is tiem—Through travel diversed from

but as the whole of the emigrants and freight per region; and that it would draw largely might not take the road, and as many who did might not pass over its whole length, we cation already in operation, in process of will make a liberal allowance, and call the revenue \$100,000. points; and the revenue to be derived thererance that the road would be well encouraged; and we proceed to show the esti-mated amount of receipts, based on a tariff which would compete with the lake naviga-

Futer Of the business which was done

as this ratio seems high; and, as it may be, the light and costly goods now imported into stances of trade, differ in the two districts the trade of the Upper Mississippi, are to be having some influence on this ratio, we will call the revenue from this source, only half of the above amount, say \$200,000. sippi rivers, the present channels, to the lakes, we might with safety rely on the above amount being increased to \$50,000. And if we add to this sum, the revenue to be depresent channels of communications, besides rived from wheat, and other cheap articles, those above considered, in consequence of which would without question, be transmit-the greater facilities offered in the proposed ted over the road from Chicago, during the winter, \$50,000, we have altogether for this item, \$100,000.

SECOND. The amount of way freight can be stated with more certainty. Wheat, on which the charges for freight would compete with the lake navigation in the summer season, forwarded

pay 7703304 1334 3754 3754 4000 9 and Lucas 24,001

100,101 gereliminary devotion of them to the Revenue from merchandise imported into the same 18 counties, section 37,080 Revenue from Salt imported into the same 18 counties, 13,369

Aggregate revenue from some of the most important articles of export and import, \$454,950

THERD.—This item is contingent like the 5th item of the passenger revenue; and is added for the same general reasons, dependadded for the same general reasons, depending upon the superior facilities anticipated from this line, in consequence of its direct connection with the Ohio railroad to Cleveland, the Illinois and Michigan canal, and the Chicago and Galena railroad. It is supposed that 2500 tons, exclusive of the tonnage belonging to St. Louis and Galena, noticed in the 1st item, would be a small allowance for this portion of the business, calling the charge 3 cents per ton per mile, or \$7.00 through, through,—
The revolue would be believed fised an 17,300

"Intermitantial Land and a second ages	
21 stem Through travel now passing	
3d item-Emigrants and their freight,	100,000
5th (item—Contingent travel,	
i is their manufaction and their very gen-	
Gross Revenue from Freight.	an mail yet
1st item Through freight furn-	neldt un
shed by Chicago,	on the stands
3d item—Contingent freight, 17,500	Homer's 43
Ath item—Carrying the United 22,550	
THE RESIDENCE AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY.	MEAT 000

Inff , aa	diet de La La balling	MAN ALL DIET WAY
	imated revenue for	
Passen Cudnet a	gers, nnual cost of worki	\$1,317,000
		oss Revenue. \$673,500

\$595,000

It should be stated here, that the above estimate of the revenue from freight supposed to be carried over the roal at rates competing with the Lake navigation, in-cludes all the exports and imports given in the statistics properly belonging to the waybusiness. If we retain these competing prices, a portion of the business might still be conducted by the lake boats; but a small reduction in the railroad tariff would ensure this business to the road: still it is assumed, that the road will be taken in preference to the lake boats; even if the charges are alike.

The total tonnage included in the above four items of freight which would move on the railroad east and west, is estimated at 124,600 tons. Of this tonnage it is estimated 106,600 tons will move east; and 18,000 tons west—and the whole tonnage would be one west—and the whole connage would be squivalent to 17,854,616 tons carried one nile, computing upon the actual distances he freight would pass on the road. There was carried on the Western railroad in 1845, 14,560,223 tons one mile.

there would be no grades of importance to ment above, to be attached to them, amount-ascend, the country being flat. The average ing with the three cars to about 10 tons duily load of a train passing east from In-

2 first class 8 wheel passg'r cars, car'g 128 pass'g'rs l second " " " ... 61 "
I beggage 4 wheeled car, " ... 41 tons,
3 cars for emigrant's effects, " ... 111 "

posed grade at a velocity exceeding 30 miles an hour, provided the boiler of the locomo tive had sufficient power to produce the re-

Number of passengers according to the 1st item of passenger revenue.

13,000

Number of passengers according to the 2d item of passenger revenue.

13,000

Number of passengers according to the 3d item of passengers according to the 3d item of passenger revenue.

13,000

It is allowed on all hands, that alleviations item of passenger revenue.

Total number reduced to through passengers, 122,890

Total number daily, reduced to through pass-

Allowing four trains to run over the road per day, the quota for a train would be 98

The effects of the emigrants would amount The average cost per ton per mile, of the to 7,200 tons annually, and if we suppose to total tonnage is 31 cents, excluding, of the whols to be moved westwardly by two ourse the emigrant teams and their effects. The amount of tonnego passing east in a tons. These effects in practice, would not load with 170 tons of freight, this load, blowever, would be confined to the most east orly locomotive stages of the road, and where

pass up a grade of 44 feet per mile, is found to be 150 tons; and at points further west the loads would be diminished. to be 150 tens; and at points further west the loads would be diminished.

The freight engines made by Messrs. Hinckley & Drury with eight wheels, have an insistent weight on the driving wheels of 20,000 lbs. Calling the friction of the train 6 the per ten, and the adhesion of the driving wheels one fifth of the insistent weight, we get a power to draw up a plane 45 feet to a mile, a gross load of 480,000 lbs. nearly, including the tender, the net load in this car might be called 152 tons; consequently we have a power sufficient to draw the required to do the grade of 44 feet per the course of this deficiency of snow may be could be diminished.

Could be several deposite of the repair shops, at eitler terminus of the repair shops, at eitler terminus of the road, could be business which is in a few years to have a load for the wood fine of the loss of the present extensive tracts of timbered to the stockholders a liberal trade would demand.

Under such an impression of the union of business which is in a few years to have a load of the loss of the present extensive tracts of timbered to the stockholders a liberal trade would demand.

Under such an impression of the union of business which is in a few years to have a load of the loss of the required to the sockholders a liberal trade would demand.

Under such an impression of the union of business which is in a few years to have a care public to the stockholders a liberal trade would demand.

Under such an impression of the union of the road, could be substituted for the wood fiel of the loss of the stockholders a liberal trade would demand.

Under such an impression of the union of the road, could be substituted for the wood fiel of the loss of the post of

mile. It would be expedient to arrange the locomotive stages, so us to have a short one to include the three steep grades at miles 67, 79 and 82 on the line—[see p. p. 191; such an arrangement would allow the engines on that division to make three trips a day, on the feet at its south end, to 900 feet at its nouth; the occurrence of an extra amount of freight to be forwarded as the section of the step in the feet that to be forwarded east.

The passenger engines, made by the same company, weighing 16 tons, with 12 tons in shores, or drives it from one side of the lake sistent weight on the driving wheels, would to the other. The prevailing wind blows have ample power to draw the regular trains from the northwest, walting the warmed atfully loaded, up grades rising at the rate of mosphere from the surface of the take, over 45 feet per mile, supposing the train to be northern Indiana and Ohio, probably chang-composed of ing into rain, what otherwise would be snow in those districts. In summer, by the same operation of nature, the temperature of the

same region, is kept comparatively cool.

In our estimate of the revenue of the railroad, we have endeavored to exhibit a hir statement of the business that may be anticitive had sufficient power to produce the requisite quantity of steam. That is to say, the adhesion would be sufficient to draw the load at that velocity.

PASSENGERS NOVED ON THE KALKOAD.

The total number of passengers, which will pass on the road, in both directions, reduced to through passengers, may be stated duced to through passengers, may be stated follows. pated for the first year or two after the road has been opened; but should others form a

from the existing impediments and inconveniencies are greatly wanted on these waters and that government, in case of reliaing a for removing these inconveniences, would seriously affect the enterprise of a large por-tion of the Union.

I feel in a degree authorized to allude here

to an opinion, concerning the importance of the lake commerce, formed by the Board of Commissioners who went out from ment in 1845 to view the harbors and other public works onthe lakes. I have been informed that they, after their investigation, rame to the conclusion (which possibly has been published) that such was the increase, prospectively considered, of the business on the lakes, and the difficulties which presented themselves in opposition to any feasib for accommodating the navy that would be required in a few years; that if government should then begin to erect the necessary structures, supposing they could appropriate the large same of money that would be wanted, these works could not be executed with the acceleration the necessities of the

Prope 4 inches to 4 in caffire and 2 to 12 feet long, capable of entailaing greeners from 40 to 2500 bepar square inch, with Blop Cocks, Tr. Ls. and other distance to said, diffing together, with screw longs, saidshie for FFEAM, WATER, GAS, and for JCOMUNITYE and other STRAM BOILER FLUES.



ORRIS TASKER & MORRIS. E Corner of Third & Walnut Stre

RAILBOAD IRON.—THE NEW JERSEY Iron Company, Boonton, N. J., are now making Railroad Bars, and are prepared to execute orders for any required pattern. Apply to FULLER & BROWN, Agents, No. 119 Groen wich, corner of Cedar street, June 1, 1847.

CHILLED RAILBOAD WHEELS.—THE undersigned are now prepared to manufacture their improved Corrugated Cur Wacels, or Wheels the any form of Spokes or Disks, by a new process which prevents all strain on the metal, such as is a produced in all other chilled wheels, by the manner of casting and cooling. By this new method of is produced in all other chilled wheels, by the manner of casting and cooling. By this new method of manufacture, the hubs of all kinds of wheels may be made whole—that is, without dividing them into sections—thus rendering the expense of banding unnecessary; and the wheels subjected to this process will be much stronger than those of the same size and weight, when made in the ordinary way, from the same size and weight, when made in the ordinary way, from the same size and weight, when made in the ordinary way, from the same size and weight, when made in the ordinary way, from the same size and weight, when made in the ordinary way, from the same size and weight, when made in the ordinary way, from the same size and the same size and the same size and the same size and the ordinary way. It is not satisfied to the same size and the same size and the ordinary way. It is not satisfied to the same size and the same size

NOTICE TO CONTRACTORS.—GREAT
Sealed proposals will be received until the 1st day of next October, at the Office of the Great Western Railway Company, for the Grading and Masonry of the Western Division, extending from London to Windsor, a distance of one hundred and ten miles; also for the branch to Port Sarnia, forty-five miles in length.

Plans and Specifications of the work can be examined at the Engineers Office, in Hamilton and London, on and after the 15th of September.

The Translation of the work can be examined at the Engineers Office, in Hamilton and London, on and after the 15th of September.

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The Translation of the Work can be examined to a continue of the 15th of September.

The Translation of the Work can be examined to a condition of the Work can be examined to a co

Spikes are kept for sale, at Factory Prices, by I. & J. Townsend, Albany, and the principal fron merchants in Albany and Troy; J. I. Brower, 222 Water St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Boston.

*** Railroad Companies would do well to forward their orders as early as practicable, as the subscriber is desirous of extending the manufoturing so as to keep pace with the daily increasing demand.

MANUFACTURE OF PATENT WIRE Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Cranes, Tillers etc., by JOHN A ROEBLING, Civil Engineer, Pittsburgh, Pa.

These Ropes are in successful operation on the planes of the Portage Railroad in Pennsylvania, on the Public Slips, on Ferries and in Mines. The first rope put upon Plane No. 3, Portage Railrord, has now run 4 seasons, and is still in good condition.

PATENT HAMMERED RAILROAD, SHIP and Boat Spikes. The Albany Iron and Nail Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 19 inches in length, and of any torm of head. From the excellence of the material always used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warranting them fully equal to the best spikes in market, both as to quality and appearance. All orders addressed to the subscriber at the works, will be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. M. The above spikes may be had at factory prices, of Erastus Corning & Co., Albany; Hart & Merritt, New York; J. H. Whitney, do.; E. J. Etting, Philadelphia; Wm. E. Coffin & Co. Boston: ja45 DATENT HAMMERED RAILROAD, SHIP

ACHINE WORKS OF ROGERS,

Ketchum & Grosvenor, Patterson, N. J. The
undersigned receive orders for the following articles,
manufactured by them of the most superior description in every particular. Their works being extensive and the number of hands employed beinglarge,
they are enabled to execute both large and small orders with promptness and despatch.

Railroad Work.

Locomotive steam engines and tenders; Driving
and other locomotive wheels, axles, springs & flange
tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with
wrought tires; axles of best American refined iron;
springs; boxes and boils for cars.

Cotton, Wool and Flax Machinery
of all descriptions and of the most improved patterns,
style and workmanship.

Mill gearing and Millwright work generally;
hydraulic and other presses; press screws; callenders; lathes and tools of all kinds; from and brass
castings of all descriptions.

ROGERS KETCHILLE A GROSVENOR

ings of all descriptions.

ROGERS, KETCHUM & GROSVENOR,
Paterson, N. J., or 60 Wall street, N. York

a45

FRENCH AND BAIRD'S PATENT SPARK ARRESTER OF BUILDING

THOSE INTERESTED IN To THOSE IN Leads of the coordinate of the coord dersigned.q

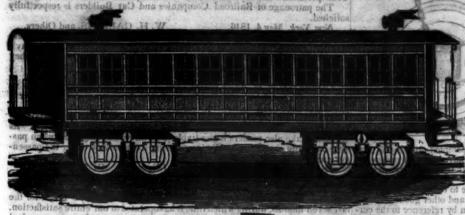
Our improved Spark Arresters have been extensively used during the last year on both passenger & freight engines, and have been brought to

mecessary; and the wheels subjected to this process will be much stronger than those of the same size and weight, when sade to the ordinary way; may way; ma





DAVENPORT & BRIDGES' CAR WORKS, CAMBRIDGEPORT,

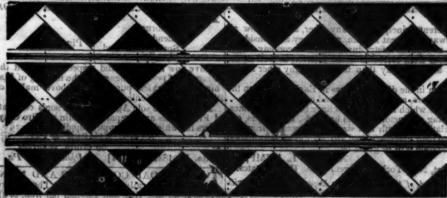


Manufacture to Order, Passenger and Freight Cars of every description, and of the most improved pattern; also furnish Snow Ploughs and Chilled Wheels of any pattern and size. Forged Axler, Springs, Boxes and Bolts for Cars at the lowest prices.

All orders punctually executed and forwarded to any part of the country.

Our Works are within fifteen minutes ride from State street, Boston—Omnibuses pass every fifteen

THE HERRON RAILWAY TRACK.



As seen stripped of the top ballasting

A GOLD MEDAL AWARDED THE INVENTOR BY THE AMERICAN INSTITUTE.

THE UNDERSIGNED RESPECTEUL.

It invites the attention of Engineers, and Rail.

The primary of the limber being more concentrated under the Rails. A block of hard wood, about 2 feet long and 15 inches wide, is introduced into a square of the trellis for the purpose of giving an additional, and the feetual support to the joints of the Rails, him to effect a very large reduction in the quantity of Timber, and cost of construction, without impuring the strength of the Track, or its powers of resisting frost, while they secure additional features of the chairs, as is now the case on all Railroads, they can be readily replaced without any decretellence in the Drainage and facility of making.

The following is a grant less than the concentrated under the Rails, as is now the case on all Railroads, they can be readily replaced without any decretellence in the Drainage and facility of making.

ing frost, while they secure additional features of excellence in the Drainage and facility of making Repairs.

The above cut represents the "Herron Track" as it is laid on the Philadelphia and Reading, and on the Baltimore and Susquehanna Railronds. The intersection of the sills of the trellis are 5 feet from centre to centre, while in the new construction they are only 21 feet. This renders the string piece unnecessary, thus removing the only objectionable feature found in the Track.

The result of experience has proved that all Tracks constructed with longitudinal timbers, such as mud aills, and more especially, the continuous bearing atting pieces retain the rain water that falls between the Rails which, being thus confined, settles along those Uniters, and necumulating in quantity flows rapidly along them on the descending grades, washing out the earth from under the timber, and frequently causing large breaches in the embankments of the road. Whereas all water intercepted by the oblique sills of the trallis, is discharged immediately into the side ditches.

In the 5 foot plan, the Track occupies a Road bed hearty of the road.

The following is a general estimate of its cost near the senboard. In the interior it will be considerably

ESTIMATE OF THE PROBABLE COST OF ONE MILE.

into the side ditches.

In the 5 foot plan, the Track occupies a Road bed

nearly 11 feet wide, while the new construction takes.

No. 277 South Tenth St., Philadelphia. 33tf

LAPLWELDED WROUGHT IRON TUBES

TUBULAR BOILERS. FROM 1 1-4 TO 6 INCHES DIAMETER,

and These Tubes are of the same quality and manufacture as those so extensively used in England, Scotland, France and Germany, for Locomotive, Marine and other Steam Engine Boileta.

THOMAS PROSSER,

28 Platt street, New York,

RAILROAD IRON.

MOUNT SAVAGE TRON WORT THIS Company are prepared to execute of for RAMROAD IAON, of any pattern, and e in point of quality to any other manufactured.

Address

Pres't, Mt. Savage Iron Works,
Dec. 25, 19*

GINERIO AND OURVEYS NSTRUMENTS MADE BY EDMUND DRAPER STANCLIFFE & DRAPER. HEEL

No 23 Pear stre

Philace phia.



THE SUBSCRIber has on hand
a good assortment of
his best Leveling and
Surveying Instruments, among them
his improved Compass for taking angles
without the needle—
also Bells, austable
for Churches, RailREW MENELLY.

DIG AND BLOOM IRON:-THE SUBSCRI Dies are agents for the sale of numerous brands of Charcoal and Anthracite Pig Iron, suitable for Machinery, Railroad Wheels, Chains, Hollowware, etc. Also several brands of the hest Puddling Iron, Juniatta Blooriis suitable for Wire, Boiler Plate, Axe Iron, Shovels, etc. The attention of those engaged in the manufacture of Iron is solicited by

A. WRIGHT & NEPHEW, 1916

Rail-ROAD IRON. THE "MONTOUR from Company," Danville, Pa., is prepared to execute orders for the heavy Rail Bars of any pattern now in use, in this country or in Europe and equal in every respect in point of quality. Apply to MURDOCK, LEAVITT & CO.,

solidity for years.

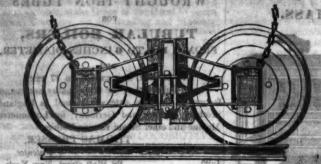
For sale in lots to suit purchasers, in tight page barrels, by JOHN W. LAWRENCE,

142 Front street, New York

Torders for the above will be seceived promptly attended to at this office.

ber having recently formed a business connection in the City of New Several sets of trucks containing the latest improvements have recently been turned out for the New York and Eric railroad, and the New Jersey Transportation company, which may be seen upon said roads.

The paironage of Railroad Companies and Car Builders is respectfully solicited.



solicited.

New York, May 4, 1846.

To all whom it may concern:—This is to certify that the New Haven Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's patent trucks for the last 20 months, during which time it appears to me, they have proved to be the bes and most economical truck now in use.

[Signed.]

VILLIAM Roe, Sup't of Power.

I certify that F. M. Ray's Patent Equalizing Railroad Truck has been it use on the Philadelphia and Reading railroad for some time past, under an assenger car.

York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for highling the same, from Railroad Companies and Car Builders in the United States, and elsewhere.

The above Truck has now been in use from one to two years on several roads a sufficient length of time to test its aurability, and other good qualities, and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck, and eight cars, which with its original cool qualities, make it in all respect to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck and eight cars, which, with its original cool qualities, make it in all respect to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck and eight cars, which, with its original cool qualities, make it in all respect to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck of the locomotive, and eight cars, which, with its original cool qualities, make it in all respect to the certificates which follow this provided the public.

The above Truck has now been in use from one to two years on several transportation, economy have used for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

Signed, T. L. Smitth, large City, November 4, 1845.

This is to certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Long Island railroad for the last year, under a freight car.

For simplicity of construction, economy in cost, lightness of material and ease of motion, I consider it equal to any truck we have in use.

Long Island Railroad.

Suph' Molive Power.

E NOLISH PATENT WIRE ROPES—FOR THE USE OF MINES, RAILWAYS, ETC.—
These Ropes are manufactured on an entirely different principle from any other, and are now almost enturing used in the collieries and on the railways in Great Britain, where they are considered to be greatly superior to hempe ones, or iron chains, as regards safety, durability and economy. The plan upon which they are made effectually secures them from corrosion in the interior, as well as the exterior of the rope, and gives a greater compactness and classicity than is found in any other manufacture.

externor of the rope, and gives a greater compactness and emetiony than is located at the facture.

Many of these ropes have been in constant operation in the different mines in England, and on the Blackwall and other inclined planes, for three and four years, and are still in good condition.

They have been applied to almost every purpose for which hempen ropes have been used—mines, heavy cranes, standing rigging, window cords, lightning conductors, signal halvards, tiller ropes, etc. Reference is made to the annexed statement for the relative strength and size. Testimonials from the most eminent engineers in England can be shown as to their efficiency, and any additional information required respecting the different descriptions and application will be given by

ALFRED L. KEMP,

75 Broad street, New York, sole agent in the United States.

ment of Trial made at the Woolvick Royal Dock Yard, of the Patent Wire Ropes, as compared with Hempen Ropes and Iron Chains of the name strength —October, 1841.

WIRE ROPES. HEMPEN ROPES. CHAINS.			
Wire gauge Circumference Weight per fathem.	Circumference Weight per fathom.	Weight per Diameter fathom. of iron.	Tons.
and the second s	10 . io ren 21 a mi be	LBS. INCH.	20
TENTON Whele Case Hall Street	ring -un all thioral, 18 chines	27 11-16 17 9-16	104
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THOMAS & EDMUND GEORGE, ads. THE ATTENThe direction of Railroad Companies is particularly repeated to Ellicotts Scales, made for weighing loading the continuous of the properties of the first to make platform scales in the country, effectually prevents of the first to make platform scales in the country, effectually prevents of the first to make platform scales in the country, effectually prevents of the first to make platform scales in the country, effectually prevents of the first to make platform scales in the country, effectually prevents of the first to make platform scales in the country, effectually prevents and the first to make platform scales in the engines and their trains from running off the first to make platform scales in the engines and their trains from running off the first to make platform scales in the engines and their trains from running off the first to make platform scales in the engines and their trains from running off the first to make for Locomotives, Marine and other Steam Engines and their trains from running off the track.

The levers of our scales are made of wrought from the upper part of the scale only being across the pit, the upper part of the scale only being made of wood.

E. Elicott has made the largest failured Scale in the world, first earners length was fine in its onstruction and operation, requiring made of wood.

E. Elicott has made the largest failured Scale in the world, first earners length was fine in its onstruction and operation, requiring made of wood.

E. Elicott has made the largest failured Scale in the world, first earners length was fine in its one to the failure of the

THE SUBSCRIBERS, AGENTS FOR the sale of Codorus,

Codorus, Glendon, Spring M.I and Valley, Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, for which purpose the above makes of Pig Iron are particularly adapted.

They are also sole Agents for Watson's celebrated Fire Bricks and prepared Kaolin or Fire Clay orders for which are promptly supplied.

SAM'L KIMBER, & CO., 59 North Wharves, Jan. 14, 1846. [1y4] Philadeinkia, Pa.

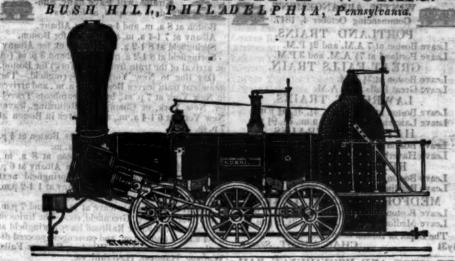
To RAILROAD COMPANIES AND MAN Unfacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all sizes; English blister, cast, shear and spring steel; Juniata rods; car axles, made of double refined iron; sheet and boiler iron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels, made from common and double refined B. O. iron; the latter a very superior article. The tires are made by Messes, Baldwin & Whitney, locomotive engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

15 2 6 8 8 131 1-2 71 sed to them, or to us, will be promptly executed.

N.B. The working load, with a perpendicular lift, may be taken at 6 cwt. for every lb. weight per fathom, so that a cope weighing 5 lbs. per fathom would safety lift 3360 lbs., and so on in proportion.

DAILROAD SCALES.—THE ATTEN—NICOLUS PATENT SAFETY SWITCH a45 N. E. cor. 12th and Market sts., Philad., Pa.

NORRIS' LOCOMOTIVE WO





MANUFACTURE their Patent 6Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz:

Class	1, 15	inches	Diameter of	Cylinder, X	20	inches Stroke.
"	2, 14	12 500	renal Tingel	" - 1×	24	Returning to New York, w
11			cepi Sandays.	Principal Contract of The Con-	20	Morrisiana ded Harma, 7
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my at t	6, 10	Y nov	areight firm	manna at 1	10	Williams Bridge, 8 and 9

Freight

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled Wheels, for the Trucks of Locomotives, Tenders and Cars.

NORRIS, BROTHERS

4,30, 6,

York after 5 by the trains

James P. Allaire,
Peter Cooper,
Murdock, Leavirt & Co.
J. Triplett & Son, Richmond, Va.
J. R. Anderson, Tredegar Iron Works, Richmond, Va.
J. Patton, Jr.
Colwell & Co.
J. M. L. & W. H. Scovill, Waterbury, Con.
N. E. Screw Co.
Eagle Screw Co.
William Parker, Supt. Bost, and Word. R. R.
New Jersey Malleable Iron Co., Newark N. J.
Gardiner, Harrison & Co. Newark, N. J.
25,000 to 30,000 made weekly.

EARNEY FIRE BRICK. F. W.
BRINLEY, Manufacturer, Perth Amboy,
N.J. Guaranteed equal to any, either domestic or
mos. from delivery of brick on board. Refer to

James P. Allaire,
Peter Cooper,
Mundock, Leavirt & Co.
J. Triplett & Son, Richmond, Va.
J. R. Anderson, Tredegar from Works, Richmond, Va.
J. Patton, Jr.
Colwell & Co.
Philadelphia, Pa.
Colwell & Co.
N. E. Screw Co.
N. E. Screw Co.
N. E. Screw Co.
Provicence, R. I.
Eagle Screw Co.
William Parker, Sunt Bost, and Word, R. R.

NORRIS, EROTHERS.

THE NEWCASTLE MANUFACTURING
Company continue to furnish at the Works situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack serews, Wrought from work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Arles fitted, also with any pattern and size, with Arles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with prompthess and despatch.
Communications addressed to Mr. William H.
Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY,
45 President of the Newcastle Manuf Co.

DAILROAD IRON AND LOCOMOTIVE

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand
by
A. & G. RALSTON
Mar. 2017

4 South Front St., Philadelphia.

25if

On Sunday.

9 o'clock a.m.
9 o'clock p.m.
5 o'clock p.m.
7 o'clock p.m.
9 o'clock p.m.
7 o'clock p.m.
9 o'clock p.m.
9 o'clock p.m.

AP-WELDED WROUGHT IRON TUE for Tubular Boilers, from 14 to 15 inches dia neter, and any length not exceeding 17 feet ufactured by the Caledonian Tube Company, Gla gow, and for sale by

designation in the second wart. 12 Platt street, New York. by distant sal at house 19 Platt street, New York.

These Tubes are extensively used by the British Government, and by the principal Engineers and Steam Marine and Railway Companies in the King on of railroad courcy ance in these directmob

as with the Northern

PRING STEEL FOR LOCOMOTIVES,
Tenders and Cars. The Subscriber is engaged
in manufacturing Spring Steel from 14 to 6 inches
in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and
wherever used, its quality has been approved of.
The establishment being large, can execute orders
with great promptitude, at reasonable prices, and the
quality warranted. Address
JOAN F. WINSLOW, Agest,
Iyana Malbany Iron and Nail Works,

THE SUBSCRIBERS ARE PREPARED excette orders at their Phonix Works for Hail road from of any required pattern, equal in quality and finish to the best imported.

REEVES, BUCK & CO., Dhildelphin

Philadelphia ROBERT NICHOLS, Agent, No. 79 Water St. New York

Pipes. The subscribers continue to manu-ture the above Pipes, of all the sizes and stream required for City or Country use, and would in individuals of companies to examine its merit. This pipe, unfike east iron and lead, imparts nel color, oxide or taste, being formed of strongly it at sheet iron, and evenly lined on the inside a hydraulic cement. While in the process of lay it has a thick covering externally of the same-forning natures own conduit of stone. The being thoroughly enclosed or, both sides with ean precludes the possibility of rust or decay, and ders the pipe trilly indestructible. The prices are than those of from or lead. We also manuface Busons and D. Traps, for Water Closets, on a principle, which we wish the public to examin 112 Fulton street, New York. 112 Fulton street, New York. J. BALL & CO.

CONNECTION BETWEEN THE BOSTON and Lowell and the Boston and Maine Rall-grounds. On and after April the ween the e two roads, will run as follows, vis.

Leaving Lowell at 7, 11 1.4 a.m., and 2 1.2, 41.

and 6 1.2 p.m., to connect at the junction in Winnington with the eastward trains—at 7 a.m. a 2 1.2 p.m., with those to Portland; at 4 1.8 p.m.,

Great Falls only, with a detention of 45 minutes the junction, and at 11 1.4 a.m. and 6 1.2 p.m.,

Haverhill only. Leaving the junction in Wilmin ton, for Lowell, at about 7 1.4 a.m. on arrival of the morning trains from Great Falls, about 11 3.4 a.m., on arrival of the morning trains from Portland. At about 5 p.m. on arrival of afternoon trains from Haverhill. At about 7 1.4 m., on arrival of the afternoon trains from Fortlan WALDO HIGGINSON, Agent

PATERSON RAILROAD Summer Arrangement acing April 20th, 1817, the Commencing April 20th, 1847, the cars will be Paterson at New York at 8 o'clock a.m. 91 o'clock a.m. 12 1-4 o'clock p.m. 4 o'clock p.m. 61 o'clock p.m. On Sunday.

8 o'clock a.m.
91 o'clock a.m.
4 o'clock p.m.
51 o'clock p.m.

ON CORD RAILROAD - PAS ns in connection with the Low us Railroads, run daily between

Concord and Boston, Sundays

excepted, as follows, viz.

Leave Concord at 5 40 and 11 5 a.m. and 3 15 p.m.

Leave Boston at 7 and 11 a.m. and 5 p.m.

This road runs by Nushna and Manchester to Concord N. H., where it connects with the Northern rallroad, extending from Concord to the mouth of White river in Vermont, 48 miles of which road, to Franklin, is now opened, and the remainder is ra-

White river in Vermont, as interest which road, to Franklin, is now opened, and the remainder is rapidly completing.

It is the direct route to Central and northern New Hampshire, and to Montpelier, Burlington, and other towns in northern Vermont, and has a greater projection of railroad conveyance in those directions

to a like the British Steam Mail Line, and the carest route from Boston to the Camadas. Numerous stages connect with all parts of the road. For further information, apply at B. P. Cheney Co.'s Express office, No. 8 Court St., and Averill Bean, No. 15 Elm St.,

All passengers baggage should be properly mark, and when valued at more than \$50, notice must given, and extra charges paid, or no loss beyond ch amount will be allowed.

M. G. UFHAM, Supt.

ORWICH AND WORCESTER BAIL-Road. Summer Arrangement. Change of Hours. Commencing on Wednesday, April 21, 1847.

Accommodation Trains, daily, (except Sunday.) cave Norwich, at 6 a. m., and 41 p. m. Leave Vorcester, at 61 a. m., and 41 p. m.

The morning Accommodation Trains from or wich, and from Worcester, connect with the sine of the Beston, and Worcester and Western direads each way.

The Evening Accommodation Train from Workers altroda each way.

The Evening Accommodation Train from Workers connects with the 24 p.m. train from Boston.

New York Train via Steamboat Leave Norwich for Boston, every morning, except Monday, on the arrival of the stamboat from New York, stoping at Norwich and Danielsonville.

Leave Workers for New York, upon the arrival of the train from Boston, at about 6, p.m., daily, except Sunday, stopping at Danielsonville and Norrich.

Freight Train daily

Preight Trains daily each way, except Sunday,— eave Norwich at 7, and Worcester at 6 30 a, m. pecial contracts will be made for cargoes, or large tanties of freight, on application to the superinten-

Int. Bares are Less when paid for Tickels than we aid in the Cars. I

J W. STOWELL, Sup't

ONG ISLAND RAILROAD COMPANY.
Summer Arrangement. On and after Monday
May 1st, trains will run as
follows, except Sundays:
Leave—Brooklyn at 9 1-2 a.m. for Farmingdale,
1-2 p.m. for Greenport, at 4 p.m. for Farmingdale,
1-2 p.m. for Greenport, at 4 p.m. for Farmingdale,
1-2 p.m. for Greenport at 8 1-2 a.m. for Brooklyn, 12 m.

do., at 3 1-4 do. do.
1 eave Greenport at 8 1-2 a.m. for Brooklyn.
1 eave Jamaica at 8 a.m. for Brooklyn, at 1 p.m.
do., at 4 p.m. do.
On Saturdays, a train will leave Brooklyn for
Yaphank, at 4 p.m. Leave Yaphank, on Mondays
for Brooklyn at 5 1-3 a.m.
On and after May 15th, and until September 1st,
1847, a train will leave Jamaica at 7 a.m. for Brooklyn
Brooklyn and Jamaica.
On Sundays—leave Brooklyn at 8 1-9 a.m. for
Farmingdale; leave Farmingdale at 4 p.m. for
Brooklyn.

Freight Trains—leave Brooklyn at 10 n.m. for
Freight Trains—leave Brooklyn at 10 n.m. for

Brooklyn.

Freight Trains—leave Brooklyn at 10 n.m. for Greenport; leave Greenport at 12 m. for Brooklyn.

Baggage crates will be in readiness at the foot of Whitehall street, to receive baggage for the several trains, 30 minutes before the hour of starting from the Brooklyn side.

The streamer Statesman "Cantain Nach leaves

ooklyn side.

eteamer "Statesman," Captain Nash, leaves
port for Sag Harbor on the arrival of the Acdation train from Brooklyn:

DAVID S. IVES, Sept.

Bugg

WINTER ARRANGEMENT, Commencing October 4, 1847. PORTLAND TRAINS.

Leave Boston at 7 A.M. and 21 P.M. Leave Portland at 71 A.M. and 3 P.M. GREAT FALLS TRAIN.

Leave Boston at 3; P.M.
Leave Great Falls at 6; A.M.
LAWRENCE TRAINS.
Leave Boston at 7, 11; a.m., 2;, 3;, 6; p.m.
Leave Lawrence at 7, 8;, 11 a.m., 3;, 6; p.m.
HAVERHILL TRAINS.

Leave Boston at 11; A.M. and 5; P.M. Leave Haverhill at 7 A.M. and 3; P.M.; READING TRAINS, Leave Boston at 8; A.M. and 6; P.M. Leave Reading at 650 A.M. and 1; P.M.

MEDFORD BRANCH TRAINS. Leave Boston at 71, a.m., 12 m., 21, 41, 6 p.m. Leave Medford at 7, 81, a.m., 11, 31, 5 p.m. The Depot in Boston is on Haymarket Square. 31 CHAS. MINOT, Super't.

BOSTON AND PROVIDENCE RAILroad. Passenger Notice. Summer Arrangement. On and after Monday, April 5, 1847, the Passenger Trains will run as follows:
Steamboat train via Stonington—Leaves Boston every day, except Sunday, at 5 o'clock p.m.
Accommodation Trains—leave Boston at 7 and

a.m. and 4 p.m., and Providence at 7; and 10;

a.m. and 4† p.m. Dedham trains, leave Boston at 8 a.m., 12‡, 3‡ 6‡ and 9 p.m., Leave Dedham at 7 and 9‡ a.m. and 2‡, 5‡ and 8 p.m.

Stoughton trains, leave Boston at 111 a.m. and p.m. Leave Stoughton at 7 10 a.m. and 31 p.m. All baggage at the risk of the owners thereof.

W. RAYMOND LEE, Supit.

NEW YORK & HARLEN RALEOAD
CO.—Summer Arrangement.—On and after
Tuesday, June 1st, 1847, the cars
will run as follows, until further
notice. Up trains will leave the City Hall for—
Yorkville, Harlem and Mosrisana at 6, 8 and 11
a.m., 2, 230, 5 and 7 p.m.
For Morrisiana, Fordham, Williams' Bridge,
Tuckahoe, Hart's Corner and White Plains, 7 and
10 a.m., 4 and 5 30 p.m.
For White Plains, Pleasantville, Newcastle, Mechanicsville and Croton Falls, 7 a.m. and 4 p.m.—

chanicsville and Croton Falls, 7 a.m. and 4 p.m.— Freight train at 1 p.m.

Returning to New York, will leave—
Morrisiana and Harlem, 7, 8 20 and 9 a.m., 1, 3,

30, 6, 6 28 and 8 p.m.

Fordham, 8 08 and 9 15 a.m., 1 20 and 6 15 p.m.
Williams Bridge, 8 and 9 08 a.m., 1 10, 6 08 p.m.
Tuckahoe, 7 38 and 8 25 a.m., 12 55 and 5 52 p.m.
White Plains, 7 10 and 8 35 a.m., 12 50, 5 35 p.m.
Pleasantville, 8 15 a.m. and 5 15 p.m.
Newcastle, 8 a.m. and 5 p.m.
Mcchanicsville, 7 48 a.m. and 4 48 p.m.
Croton Falls, 7 30 a.m. and 4 30 p.m. Freight ain at 10 a.m. 30, 6, 6 28 and 8 p.m.

ain at 10 a.m. Freight train will leave 32d street for Croton Falls Freight train will leave 32d street for Croton Falls and intermediate places, 4 a.m and City Hall 1 p.m. Returning, leave Croton Falls 10 a.m. and 94 p.m. ON SUNDAYS, the trains will run as follows: Leave City Hall for Croton Falls, 7 a.m., 4 p.m. Croton Falls for City Hall, 7 30 a.m., 4 30 p.m. Leave City Hall for White Plains and intermediate places, 7 and 10 a.m., 4 and 5 30 p.m. White Plains for City Hall, 7 10 and 8 35 a.m., 12 30 and 5 35 p.m. and intermediate places, 4 a.m and City Hall 1 p.m.
Returning, leave Croton Falls 10 a.m. and 91 p.m.
ON SUNDAYS, the trains will run as follows:
Leave City Hall for Croton Falls, 7 a.m., 4 p.m.
Croton Falls for City Hall, 7 30 a.m., 4 30 p.m.
Leave City Hall for White Plains and intermediate places, 7 and 10 a.m. 4 and 5 30 p.m.
White Plains for City Hall, 7 10 and 8 35 a.m., 12 30 and 5 35 p.m.
Extra trains will be run to Harlem, Fordham and Williams Bridge on Sunday, when the weather is fine.
The trains to and from Croton Falls will not stop on N. York island, except at Broome st, and 32d st.
A car will precede each train 10 minutes to take up passengers in the city.
Fare from New York to Croton Falls and Somers \$1, to Mechanicsville 87c., to Newcastle 75c., to Pleasantville 624c. to White Plains 50c.

24tf
H. C. SEYMOUR, Sup't.
REAT SOUTHERN MAIL LINE! VIA
TWashington city, Richmond, Petersburg, Weldon and Charleston, S. C., direct to New Orleans.
The only Line which carries the Great Southern Mail, and Twenty-four Hours in advance of Bay Line, leaving Baltimore same day.
Passengers leaving New York at 44 P.M., Philadelphia at 10 P.M., and Baltimore at 61 A.M., proceed without delay at any point, by this line, reaching Richmond in eleven, Petersburg in there and a half hours, and Charleston, S. C., in two days from Baltimore.

For Tickets, or further information, apply at the Southern Ticket Office, adjoining the Washington Company of the Washington Company of the Washington Company of the Co

WESTERN RAILROAD. ON AN ler Monday, April 5 1847, the partrains will leave daily, Sundays excepted, as follows:

Boston at 8 a, m. and 4 p. ii Albany at 7 1-4 a. m. and 5 Springfield at 8 1-2 a. m. at Springfield at 8 1-2 a. m. an n. for Albany for Boston p. m. for Albany
2 and 3 p. m. (or
York) for Boston.
Springfield.—The arrival of the train from

Day line to New York, via Springfield.—The steamboat train leaves Boston at 6 a.m., and arrives in New York at 7 p. m., by the steamboats Traveller, New York, or Champion. Returning, leaves New York at 6 1-4 a.m., and arrives in Boston at

New York at 6 1-4 a. m., and arrives in Boston at 7 p. m.

Night line to New York.—Leaves Boston at 4 p. m., and arrives in New York at 5 a. m.

Albany and Truy.—Leave Boston at 8 a. m., Arrive in Albany and Truy.—Leave Boston at 8 a. m., or, leave Boston at 4 p. m., Springfield next morning at 81-2, and arrive in Albany at 1 1-2 p.m.

The Truy trains connect at Greenbush, The trains for Buffinlo leave at 71 a. m. and 7 p.m.

For Northampton, Greenfield, etc.—The trains of the Connecticut River Railroad leave Springfield at 31-4 a. m., 7 and 3 p.m., and passengers proceed directly on to Brattleboro', Windsor, Bellows Falls, Walpole, Hanover, Haverbill, etc.

Walpole, Hanover, Haverhill, etc.

For Hartford.—The trains leave Springfield on the arrival of the trains from Boston.

The trains of Pittsfield and North Adams Rail-road leave Pittsfield on the arrival of the trains from Boston.

N. B.—No responsibility assumed for any bag-gage by the passenger trains, except for wearing apparel not exceeding the value of fifty dollars, un-

less by special agreement.

JAMES BARNES, Sup't and Eng'r.

C. A. SEAD, Agent, 27 State street, Boston.

NEW YORK AND ERIE RAILROAD LINE SUMMER ARRANGEMENT. For passengers, twice each way daily, York from the foot of Duane St. at 7 o'clock, A. M. and at 4 o'clock, P. M. by steamboat, for Piermont, thence by cars to Ramapo, Monroe, Chester, Goshen, Middletown, Otisville, and the intermediate stations.

The return trains for New York will leave Otisville at 6 30, A. M. and 4 15, P. M.; Middletown at 7 A./M.; and 4 40, P. M.; Goshen at 7 22, A. M. and 5 3, P. M.; Chester at 7 35, A. M. and 5 18, P. M. Fare between New York and Otisville, \$1 50;

way-fare in proportion.

For Mn. Leave Otisville at 51 o'clock, morn-

ing and evening.

For Fatigur—The barges "Samuel Marsh and "Henry Suydam, Jr." will leave New York (from the foot of Duane St.) at 5 o'clock, P. M. daily (ex-

cept Sundays.)

No freight will be received in New York after 5 o'clock, P. M.

Freight for New York will be taken by the trains leaving Otisville at 104 o'clock, A. M.; Middletown at 114, A. M.; Goshen at 124, P. M.; Chester at 1 o'clock, P. M., etc., etc.

For farther particulars, apply to J. F. CLARK-SON, Agent, corner of Duane and West Sts., New York, or to S. S. POST, Superintendent Transportation, Piermont.

41. C. SEYMOUR, Sup't.

BAHTIMONI AND GHIO RAILROAD.
MAIN. STEM. The Train carrying the timore every morning at 74 and Cumberland at 8 o'clock, passing Ellicou's Mills, Frederick, Harpers Ferry, Martinsburgh and Hancock, conneting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry—with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Comments steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongaheta Slack Water between Brownsville and Pittsburgh. Time of arrival at both Cumberland and Baltimore 51 P. M. Fare between those points \$7, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 33 hours. Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.

Daily trains at 9 A. M. and 5 P. M. and 12 at night from Baltimore and at 6 A. M. and 51 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington, and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances.

ITTLE MIAMI RAILROAD COMPANY. Fall and Winter Arrangement, 1847. On and after Monday, September 20th, until further notice, a Passenger

train will run as follows:

Leave Cincinnati daily at 9 A. M., for Millord, Foster's Crossing, Deerfield, Morrow, Fort Ancient, Fresport, Waynesville, Spring Valley, Xcnia, Yellow Springs, and Springfield. Returning, will leave Springfield at 44 a.m. Upward train arrives at Springfield at 24 p.m. Downward train arrives at Cincinnati at 104 a.m.

Freight trains will run each way daily.

Messrs. Neil, Moore & Co. are running the fol-lowing stage lines in connection with the road: A daily line from Xenia to Columbus and Wheel-

ing, carrying the great Eastern mail.

Daily lines from Springfield to Columbus, Zanes- and Oothcaloga, at the following ville and Wheeling. Also to Urbana and Bellefon- On Weight Goods-Sugar, Cof-

A line of Hacks runs daily in connection with the train between Deerfield and Lebanon.

Passengers leaving for New York and Boston, arrive at Sandusky city via Urbana, Bellefontaine & the Mad River and Lake Erie railroad, in 27 hours, including several hours' sleep at Bellefontaine. To the same point via Columbus, Delaware, Mansfield and the Mansfield and Sandusky city railroad, is 32 hours. Distance from Cincinnati to Springfield by railroad.

From Springfield to Bellefontaine by stage,

From Bellefontaine to Sandusky city by

" Sundusky city 7 00 The Passenger trains runs in connection with

Strader & Gorman's line of Mail Packets to Louis-ville.

Tickets can be procured at the Broadway Hotel, Deanison House, or at the Depot of the Company Dennison House, or a on East Front street.

Purther information and through tickets for the Stage lines, may be procured at P. Campbell, Agent on Front street, near Broadway.

The company will not be responsible for baggage beyond 50 dollars in value, unless the same is returned to the conductor or agent, and freight paid at amount.

W. H. CLEMENT, Sup't.

BALTE GREE AND SUSQUEHANNA CAENTRAL RAILROAD-FRO Railroad.—Reduction of Fare. Morning and Alternoon Trains between Balti-Leaves Baltimore at ... 9 a.m. and 3 p.m.

Arrives at ... 9 a.m. and 3 p.m.

Leaves York at ... 5 a.m. and 3 p.m.

Leaves York for Columbia at ... 12 p.m. and 8 p.m.

Leaves Columbia for York at ... 8 a.m. and 2 p.m.

FARE. 81 50 2 00 Wrightsville

Columbia

Way points in proportion.

PITTSBURG, GETTYSBURG AND

HARRISBURG.

Through tickets to Pittsburg via stage to Harrisburg.

Trains leave Lexington for Frankfort daily, at 5 o'clock a.m., and 2 p.m.

Trains leave Prankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.

On Sunday but one train, 5 o'clock a.m. from Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and ma. 9. from Frankfort, other hours as above. 3517

CENTRAL AND MACON AND WEST-ern Railroads, Ga.—These Roads with the Western and Atlantic Railroad of the State of Georgia, form a continuous line from Savannah to Oothealoga, Ga., of 371 miles, viz:

Savannah to Macon—Central Railroad 190
Macon to Atlanta—Macon and Western 101
Atlanta to Oothealoga—Western and Atlantic .. 80
Goods will be carried from Savannah to Atlanta and Oothcaloga, at the following rates, viz:

fee, Liquor, Bagging, Rope, Butter, Cheese, Tobacco, Leather, Hides, Cotton Yarns, Copper, Tin, Bar & Sheet Iron, Hollow Ware & 00 CHARLESTON

portation of Passengers and Freight Rates of Passenge, 26 00. Freight On weight goods generally... 50 cts per hundred On measurement goods and 13 cts per cubic ft. On bris, wet (except molasses

THE WESTERN AND ATLANTIC Railroad.—This Road is now in operation to Outhcalogn, a distance of 80 miles, and connects daily (Sundays excepted) with the Georgia Rail-

From Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the carron Tuesday, Thursday and Satunday, for Warrinton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphia, Tennessee.

On the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murireesborough, Knoxville and Nashville, Tennessee.

This is the most expeditious route from the east to any of these places.

any of these places.
CHAS, F. M. GARNETT,

Atlanta, Georgia, April 16th, 1846. 1y1

A STATE OF THE PARTY OF THE PAR	or a management of the second	TAO FRANKLINA HOUSEAS
This Hond of Parties the trans-		The understand takes the liberty of calling the
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Tin, Feathers, Sheet long in A	marked, care of B. CHANDLER, Chattanooga. Charges will accompany the goods, and be col	notice of all persons in any way interested in these
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